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TI Refractory materials for the lining of molten metal vessels  
PA Nippon Steel Corp., Japan; Nippon Crucible Co., Ltd.  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC C04B035-66; B22D035-04  
CC 57-6 (Ceramics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57088084	A2	19820601	JP 1980-163860	19801120
PRAI	JP 1980-163860		19801120		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 57088084	IC	C04B035-66IC B22D035-04

AB Refractory material containing refractory aggregate 50-85, SiC 13-50, and C 1.5-10% 100 parts is mixed with water-insol. Al tripolyphosphate 0.25-2.2, alkali metal silicate 0.4-2.2, and organic paste and/or clay 0.5-5 parts. Thus, a refractory mixture containing Al<sub>2</sub>O<sub>3</sub> 70, graphite 4, SiC 26, Al tripolyphosphate 0.6, Na silicate 1, clay 1.5, and water 9 parts was molded, cured for 24 h, dried, and heated at 350° for 2 h to give a test piece having high resistance to erosion by molten pig iron.

ST alumina refractory lining; metal vessel lining refractory  
IT Linings

(of vessels for molten metals, alumina refractory containing **silicon carbide** and graphite for)